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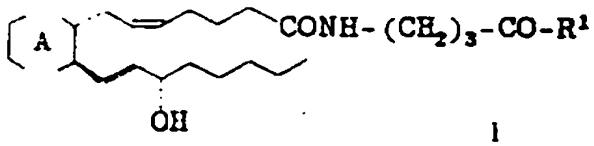
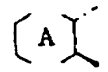
TITLE : ENZYME LABELED THRONBOXANE B2 AND METHOD FOR MEASURING 11-DEHYDRO-THROMBOXANE B2



I



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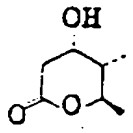

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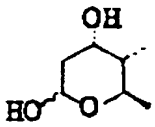

IV

ABSTRACT : PURPOSE: To measure 11-dehydro-thromboxane B_2(TXB_2) with high accuracy by using specific enzyme labeled thromboxanes B_2 and making an analysis by using a two-antibody method for enzyme immunoassay.

CONSTITUTION: The enzyme labeled thromboxanes B_2 expressed by formula I are use. In formula I, the part of formula II is of the structural formula expressed by formula IV; R^1 denotes enzyme conjugated after one of the hydrogen atoms of the amino group is removed. Said R^1 is, prescribed β-D- galactosidase, etc. The antigen-antibody complex formed by incubating the specimen, the anti-serum and the enzyme labeled antigen expressed by formula I is separated to a face type and a bond type by the two-antibody method for the enzyme immunoassay. An enzyme substrate is thereafter acted on the antigen-antibody complex and the fluorescent intensity of the product is measured, by which the concn. of the 11-dehydro-TXB_2 is determined. Since the analysis is made by using the enzyme label expressed by formula I and by the two-antibody method, the 11-dehydro-TXB_2 is measured with the high accuracy.